



Water-Data Report 2008

08446500 Pecos River near Girvin, TX

Lower Pecos Basin
Lower Pecos-Red Bluff Reservoir Subbasin

LOCATION.--Lat 31°06'47", long 102°25'02" referenced to North American Datum of 1927, Pecos County, TX, Hydrologic Unit 13070001, on right bank 2.1 mi upstream from Comanche Creek, 3.8 mi northwest of Girvin, and 7.2 mi upstream from bridge on U.S. Highway 67.

DRAINAGE AREA.--37,300 mi² of which 7,740 mi² probably is noncontributing, which is contributing area of supplementary gage 7.2 mi downstream.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Aug. 1939 to current year. Water-quality records: Chemical data: Oct. 1939 to June 1941, Oct. 1946 to Sept. 1947, Oct. 1953 to Aug. 1982. Pesticide data: May 1968 to July 1974. Specific conductance: Oct. 1939 to June 1941, Oct. 1946 to Sept. 1947, Oct. 1953 to Sept. 1982. Water temperature: Oct. 1953 to Jan. 1959, Mar. 1964 to Sept. 1982.

GAGE.--Water-stage recorder with concrete control and measuring flume. Elevation of gage is 2,290 ft above NGVD of 1929, from topographic map. Supplementary water-stage recorder, 7.2 mi downstream at datum 2,269.65 ft above NGVD of 1929, used as regular gage prior to July 17, 1951, is now used only for peaks exceeding about 750 ft³/s. Satellite telemeter at station.

REMARKS.--Records good except those for Jun. 18, which are fair. Since installation of gage at least 10% of contributing drainage area has been regulated. There are numerous diversions upstream of station for irrigation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 1932 reached a stage of 17 feet, discharge not determined; information supplied by local residents.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	42	37	46	33	33	35	21	14	23	29	8.3	22
2	41	37	45	33	33	35	20	13	14	11	8.5	23
3	41	36	42	32	33	34	19	12	10	11	7.8	25
4	42	36	39	33	33	33	18	12	8.5	29	8.9	22
5	41	35	39	33	33	31	18	12	6.9	43	8.7	26
6	39	33	37	33	32	31	18	12	6.7	43	6.9	21
7	38	32	36	34	32	30	18	12	6.0	53	6.4	25
8	36	31	36	33	32	34	17	15	5.6	45	6.1	27
9	35	31	36	33	32	43	17	14	5.5	37	6.3	29
10	34	31	35	33	31	49	17	15	4.7	34	6.7	37
11	37	30	36	33	31	45	16	24	4.3	31	21	40
12	35	30	40	34	32	39	15	15	4.1	27	17	50
13	33	30	36	33	31	36	15	12	4.0	22	33	57
14	32	32	35	33	30	34	14	11	4.2	17	37	46
15	34	36	35	33	31	32	15	10	4.3	15	34	89
16	37	44	34	33	31	30	16	10	3.7	12	37	134
17	33	48	33	33	31	30	17	9.6	3.6	10	32	105
18	32	48	34	33	31	29	18	9.4	3.3	9.2	29	100
19	31	46	34	33	34	29	17	9.2	2.9	8.7	29	89
20	31	43	34	32	40	28	18	8.9	3.4	8.5	26	75
21	33	40	34	32	45	27	19	8.7	2.7	8.1	26	64
22	34	37	34	33	48	27	21	8.1	2.7	8.5	33	56
23	34	35	33	33	56	27	20	7.7	2.7	12	29	52
24	35	34	33	34	60	26	19	7.1	15	13	21	50
25	36	37	33	35	55	26	18	6.5	8.5	13	19	48
26	36	36	33	35	47	25	17	6.4	6.0	12	17	46
27	35	35	33	34	41	25	16	6.8	4.7	9.8	15	45
28	33	37	33	34	38	24	15	7.4	5.6	9.8	14	45
29	33	41	32	34	36	23	15	7.7	19	9.7	15	44
30	34	45	33	33	---	22	15	6.6	12	9.7	15	43
31	36	---	33	33	---	22	---	24	---	10	17	---
Total	1,103	1,103	1,106	1,030	1,072	961	519	347.1	207.6	611.0	590.6	1,535
Mean	35.6	36.8	35.7	33.2	37.0	31.0	17.3	11.2	6.92	19.7	19.1	51.2
Max	42	48	46	35	60	49	21	24	23	53	37	134
Min	31	30	32	32	30	22	14	6.4	2.7	8.1	6.1	21
Ac-ft	2,190	2,190	2,190	2,040	2,130	1,910	1,030	688	412	1,210	1,170	3,040

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	177	95.9	63.2	59.5	51.2	43.1	34.0	42.3	89.7	42.9	33.7	60.0
Max	8,506	3,007	1,192	935	769	314	142	538	3,556	813	376	1,168
(WY)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(1957)	(1942)	(1941)	(1941)	(1941)	(1941)
Min	9.52	13.0	11.9	14.4	14.5	15.1	11.3	6.38	2.84	3.86	4.13	6.05
(WY)	(1980)	(1974)	(2004)	(2004)	(1982)	(2004)	(1985)	(2003)	(1983)	(1964)	(1969)	(1983)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1939 - 2008	
Annual total	14,870.0		10,185.3			
Annual mean	40.7		27.8		66.1	
Highest annual mean					1,386	1942
Lowest annual mean					15.1	2002
Highest daily mean	620	Aug 5	134	Sep 16	19,400	Oct 5, 1941
Lowest daily mean	5.6	Jul 4	2.7	Jun 21	1.9	Jun 19, 1982
Annual seven-day minimum	7.9	Jun 21	3.0	Jun 17	2.3	Jul 1, 1983
Maximum peak flow			148	Sep 16	^k 20,000	Oct 5, 1941
Maximum peak stage			2.13	Aug 11	^P 20.49	Oct 5, 1941
Annual runoff (ac-ft)	29,490		20,200		47,920	
10 percent exceeds	57		43		79	
50 percent exceeds	33		31		27	
90 percent exceeds	12		8.0		10	

^k From supplementary gage.

^P Observed.

